

Title (en)

Roller Bottle for trans-membrane co-culture of cells and method for its use

Title (de)

Rollflasche für Transmembran Ko-kultur von Zellen und Verfahren zu deren Anwendung

Title (fr)

Bouteilles tournantes pour la co-culture trans-membrane de cellules et son procédé d'utilisation

Publication

**EP 0700990 A2 19960313 (EN)**

Application

**EP 95306386 A 19950912**

Priority

US 30446394 A 19940912

Abstract (en)

A roller bottle for trans-membrane co-culture of cells includes an exterior receptacle with a longitudinal axis having a first chamber surrounded by a sidewall. The exterior receptacle has a first neck at one end having an opening therethrough providing fluid access to said first chamber. The roller bottle further includes an interior container with a longitudinal axis and a second chamber, the interior container being located coaxially within the exterior receptacle. The interior container has a second neck at one end providing fluid access to the second chamber. The exterior receptacle is formed from a material that is substantially impermeable to gas and liquid and is sealed in a substantially fluid tight fashion forming the first chamber that has fluid access by the first neck. At least a portion of the interior container is formed from a microporous material. The roller bottle of the invention enables culturing one cell type in the presence of another cell type for the study of interactions between the cells while maintaining a physical separation between the cell types providing a scale up in cell population size from well type inserts. The microporous membrane allows free interchange of media soluble cellular products between the cell types, but maintains physical separation. <MATH>

IPC 1-7

**C12M 3/04**; **C12M 3/06**

IPC 8 full level

**C12M 1/24** (2006.01); **C12M 3/00** (2006.01); **C12M 3/04** (2006.01); **C12M 3/06** (2006.01)

CPC (source: EP US)

**C12M 23/34** (2013.01 - EP US); **C12M 27/12** (2013.01 - EP US); **C12M 35/08** (2013.01 - EP US); **Y10S 220/14** (2013.01 - EP); **Y10S 220/918** (2013.01 - EP)

Cited by

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Designated contracting state (EPC)

DE ES FR GB IT

DOCDB simple family (publication)

**EP 0700990 A2 19960313**; **EP 0700990 A3 19970423**; CA 2156578 A1 19960313; JP 2620060 B2 19970611; JP H08173145 A 19960709; US 5527705 A 19960618

DOCDB simple family (application)

**EP 95306386 A 19950912**; CA 2156578 A 19950821; JP 23434495 A 19950912; US 30446394 A 19940912